

# jean-françois pambrun

researcher | engineer | software developer

## about

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## languages

bilingual  
french/english

## programming

java, javascript  
matlab, c, c++  
linux, xml, git  
html5, latex

## standards

dicom, ihe, hl7  
jpeg 2000, jpip

## education

since 2011	<b>Ph.D. in electrical engineering</b>	École de technologie supérieure
	Medical image compression and transmission optimization.	
2009-2010	<b>M.Sc. in electrical engineering (incomplete)</b>	École de technologie supérieure
	Evaluation of the diagnostic quality of lossy compressed images.	
2005-2009	<b>B.ing. in electrical engineering</b>	École de technologie supérieure
	Specialization in information technologies and telecommunication.	
2001-2005	<b>DEC in computerized systems technology</b>	Cégep de l'Outaouais

## experience

2009-2014	<b>lecturer</b>	École de technologie supérieure
	software development environment (ele116) image processing and analysis (ele747)	
2009-2014	<b>teaching assistants</b>	École de technologie supérieure
	healthcare distributed systems (gts840) software development environment (ele116) image processing and analysis (ele747)	
2009	<b>software developer</b>	CAE inc.
	head-up display simulation for military flight simulators.	
2006-2008	<b>research assistant</b>	École de technologie supérieure
	development standard compliance tool for hl7v3. implementation and evaluation of a medical image streaming software.	

## awards

2014	<b>best scientific poster at the annual SIIM meeting</b>	500\$
2011	<b>CRSNG doctoral Alexander-Graham-Bell scholarship</b>	35,000\$/an
2011	<b>excellence scholarship for graduate student of the ÉTS</b>	20,000\$/an
2011	<b>FQRNT doctoral research scholarship</b>	20,000\$/an
2009	<b>FQRNT master's research scholarship</b>	15,000\$/an
2006	<b>CRSNG undergraduate student research awards</b>	4,500\$

## implication bénévole

depuis 2013	<b>administrateur d'un OBNI</b>	Association étudiante de l'ÉTS
	vice-président aux services représentant étudiant à la commission des études	

# publication

## articles in peer-reviewed journals

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based Guidelines

Pambrun J.F. Noumeir R.

Journal of Digital Imaging. Springer Science, 2015

Teaching DICOM by Problem Solving.

Noumeir R. Pambrun J.F.

Journal of Digital Imaging. Springer Science, 2012

Streaming of medical images using JPEG2000 interactive protocol

Pambrun J.F. Noumeir R.

International Journal of Innovative Computing and Applications. 2012

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

Noumeir R. Pambrun J.F.

Journal of Digital Imaging. Springer Science, 2010

## international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging(accepted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Image Processing (ICIP), 2015

VOI-Based JPEG 2000 Compression for Medical Applications(submitted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Kurtosis Constrained Image Compression for Medical Applications(submitted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Learning DICOM by solving real clinical problems

Noumeir R. Pambrun J.F.

IEEE-EMBS International Conference on Biomedical and Health Informatics, 2012

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various slice thicknesses

Pambrun J.F. Noumeir R.

IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

Pambrun J.F. Noumeir R.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

Noumeir R. Pambrun J.F.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

Noumeir R. Pambrun J.F.

IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

Berube R, Pambrun J.F, Noumeir R.

IEEE International Conference on Internet and Web Applications and Services. 2010

Images within the Electronic Health Record

Noumeir R. Pambrun J.F.

IEEE International Conference on Image Processing. 2009